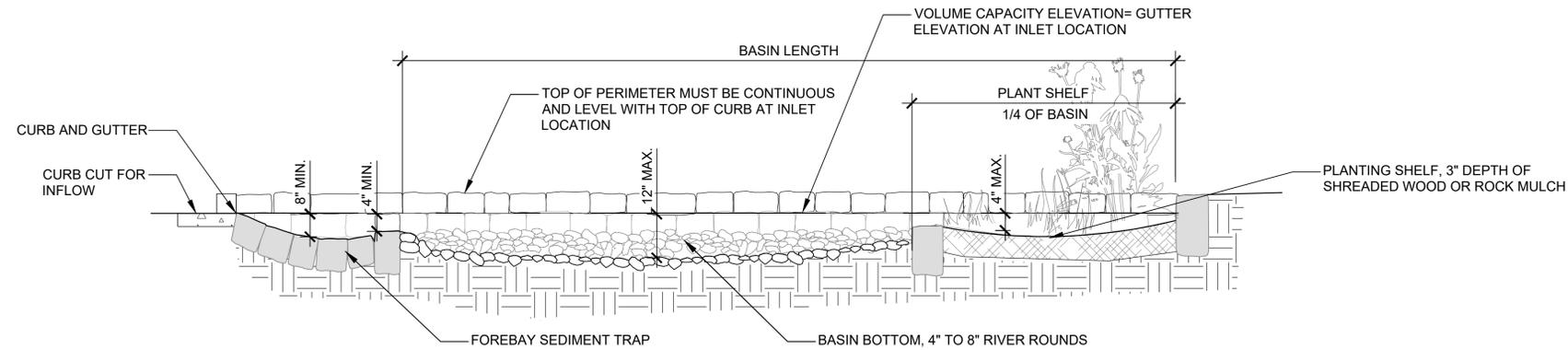
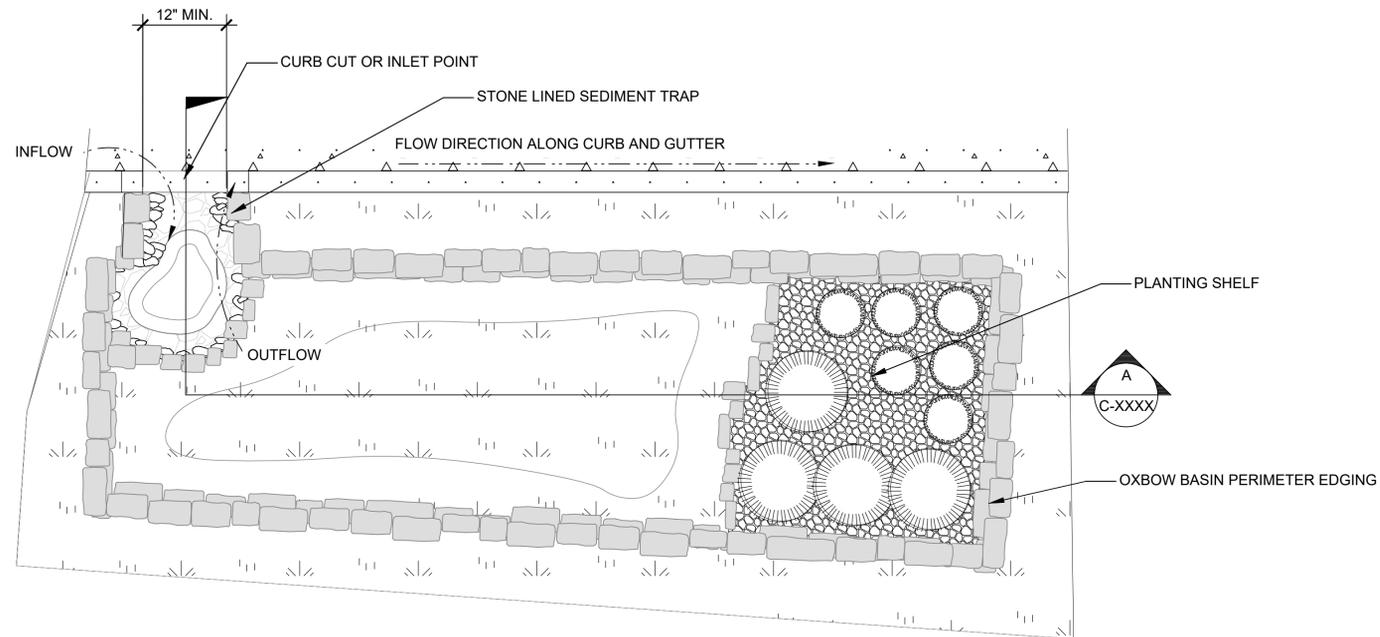


**GENERAL NOTES:**

- IF THIS SHEET IS NOT 24"x36" USE GRAPHIC SCALE ACCORDINGLY.



**OXBOW SECTION**  
VIEWL C-XXXX  
1' 6" 0 1' 2' 3'  
1/2"=1'-0"



**OXBOW PLAN**  
VIEWL C-XXXX  
1' 6" 0 1' 2' 3'  
1/2"=1'-0"

**NOTES FOR DESIGNER:**

(DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

**DESIGN LIMITATIONS:**

- EFFECTIVE IMPLEMENTATION REQUIRES RELATIVELY FLAT AREA.
- SOILS MUST SUSTAIN VEGETATION GROWTH.

**SITING CRITERIA:**

- LOCATE IN AREAS TO CAPTURE RUNOFF FROM ROADWAYS AND PARKING LOTS.
- SITE IN AREAS WHERE TUFF IS AT LEAST 18" BELOW THE BOTTOM OF THE FEATURE.

**DESIGN CRITERIA:**

- IF INFILTRATION IS LOW (<5"/HR) CONSIDER PLACEMENT OF A MIN. 12" SAND LAYER UNDER BASIN.
- SEDIMENT TRAP SHALL BE SIZED TO CONTAIN 5% OF THE TOTAL OXBOW DETENTION VOLUME.
- INTERIOR WALL AT PLANTING AREA SHALL BE A MAX. OF 4" BELOW GUTTER INLET ELEVATION.
- TOP ELEVATION OF SEDIMENT TRAP INTERIOR WALL SHALL BE MIN. 4" BELOW GUTTER INLET ELEVATION.
- PLANTING ZONE SHALL BE STABILIZED WITH 3" DEPTH OF SHREDDED WOOD OR ROCK MULCH.
- VEGETATION SHOULD BE DROUGHT TOLERANT, AND ABLE TO WITHSTAND PERIODIC INUNDATION.
- OXBOWS SHOULD BE DESIGNED TO BLEND WITH THE CONTEXT OF THE SURROUNDING LANDSCAPE.
- OXBOW EDGING MATERIALS OPTIONS IN URBAN CONDITIONS:  
CONCRETE  
STONE
- OXBOW EDGING MATERIALS OPTIONS IN RURAL CONDITIONS:  
CONCRETE  
STONE  
BERMS
- IF CONCRETE IS UTILIZED IT SHALL CONFORM WITH LANL REQUIREMENTS. IF STONE IS UTILIZED IT SHALL BE SIZED BASED ON CHANNEL VELOCITIES AND VERTICAL/ HORIZONTAL SHEER CONSIDERATIONS.

**CONSTRUCTION CRITERIA:**

- DO NOT OVER COMPACT BASIN SOILS.
- IDENTIFY APPROPRIATE MATERIALS AND HOLD POINTS FOR INSPECTION AND APPROVAL DURING CONSTRUCTION.
- PROVIDE ACCESS FOR MAINTENANCE.

		REVISIONS PER [DCF] [DRN] [FCR]						
0		INITIAL ISSUE FOR [DCF-XYZ]						
NO	DATE	CLASS REV	DC	DESCRIPTION	DWN	DSGN	CHKD	SUB APP

**ENGINEERING STANDARDS**

<b>CIVIL</b> <b>LOW IMPACT DEVELOPMENT</b>		DRAWN	R. FERRELL
		DESIGN	T. LEMKE
<b>BIO-RETENTION CELL / OXBOW</b>		CHECKED	S. RAEI
		DATE	02-10-20
TA-XX		BLDG XXXX	
SUBMITTED DISCIPLINE POC: JOHN O'BRIEN		APPROVED FOR RELEASE STANDARDS MANAGER: TOBIN ORUCH	
		PO Box 1663 Los Alamos, New Mexico 87545	<b>1</b> OF <b>16</b>
D.C.: UNCLASSIFIED	REVIEWER: DONALD YARDMAN	DATE:	REV
PROJECT ID	DRAWING NO		REV
<b>CHAPTER 3</b>	<b>ST-G20GEN-1.14</b>		<b>0</b>

00% REVIEW  
NOT FOR CONSTRUCTION